

Figure 2

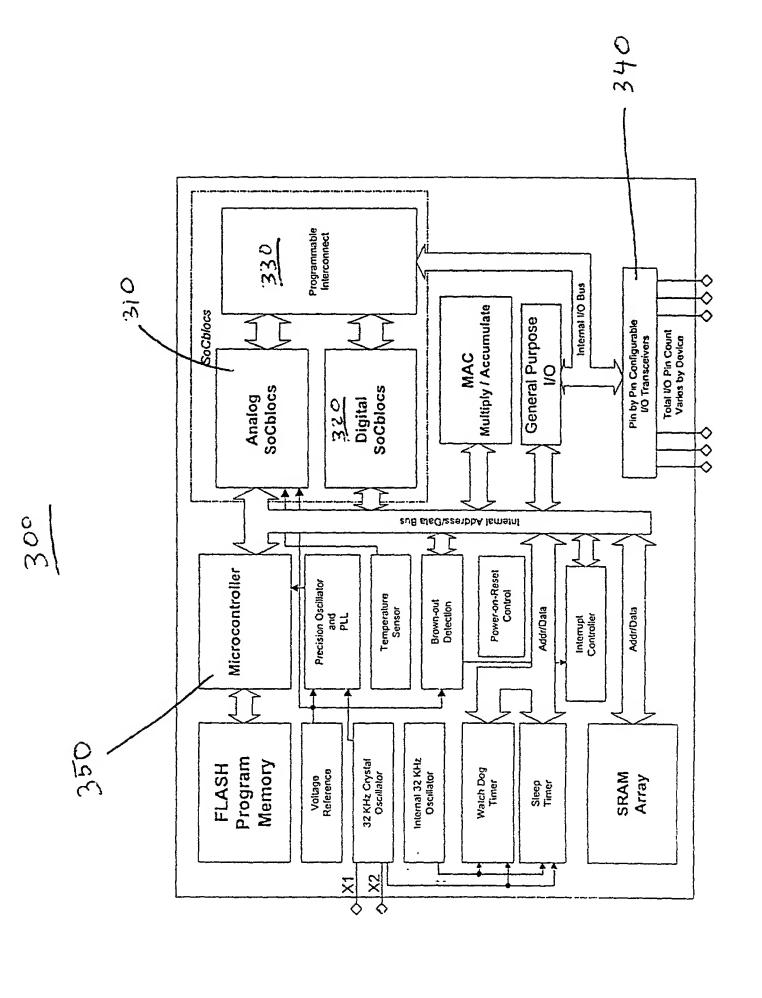


FIGURE 3

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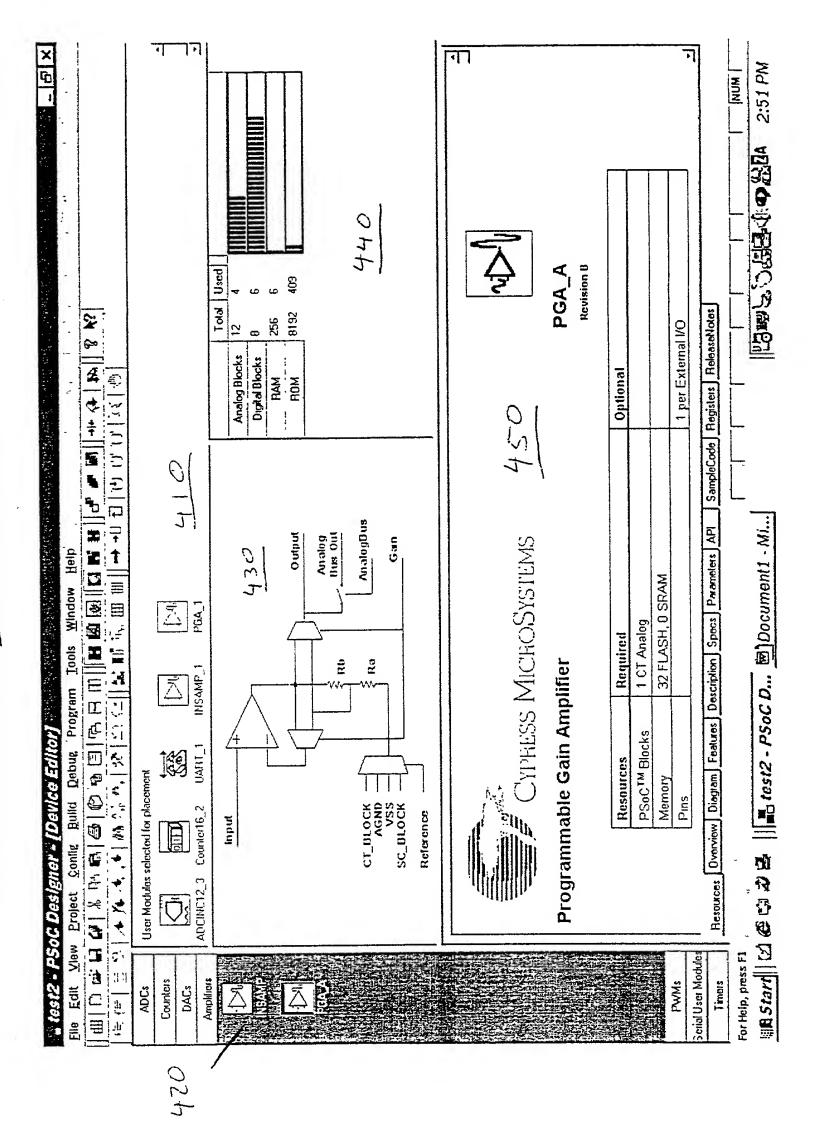
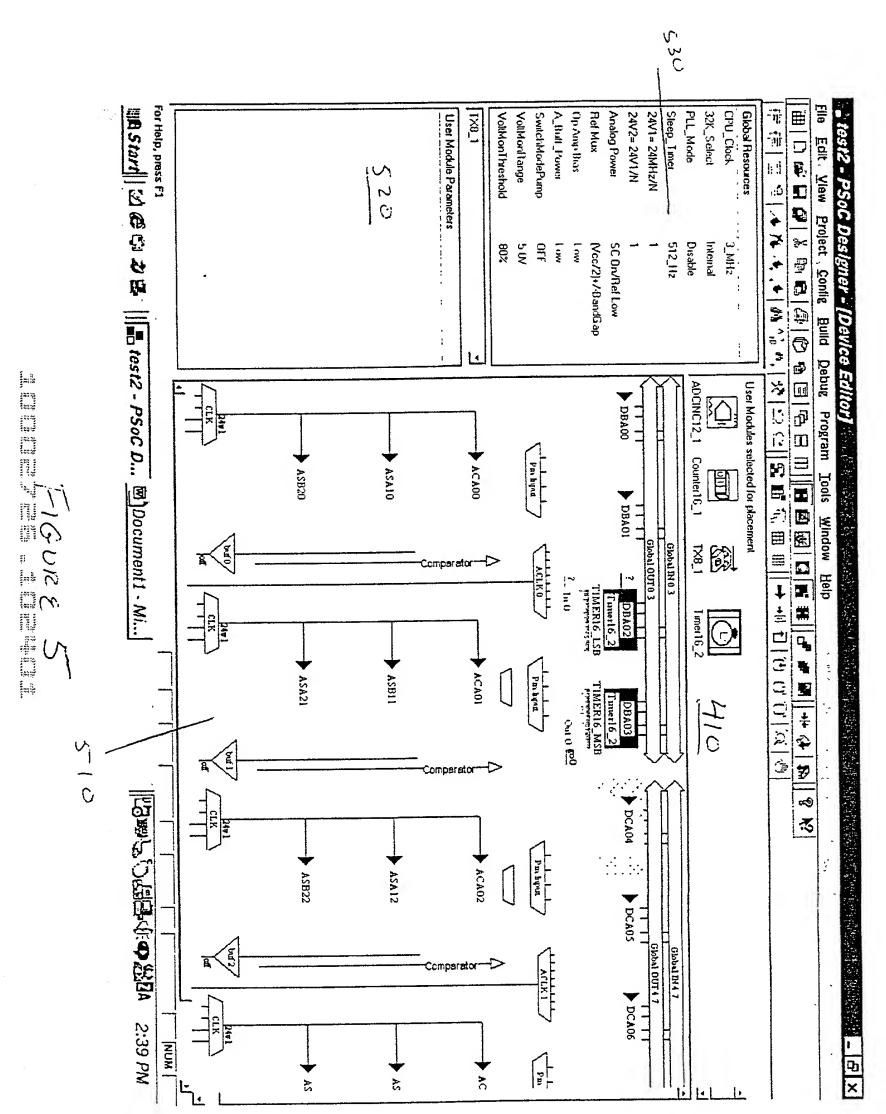


FIGURE 4



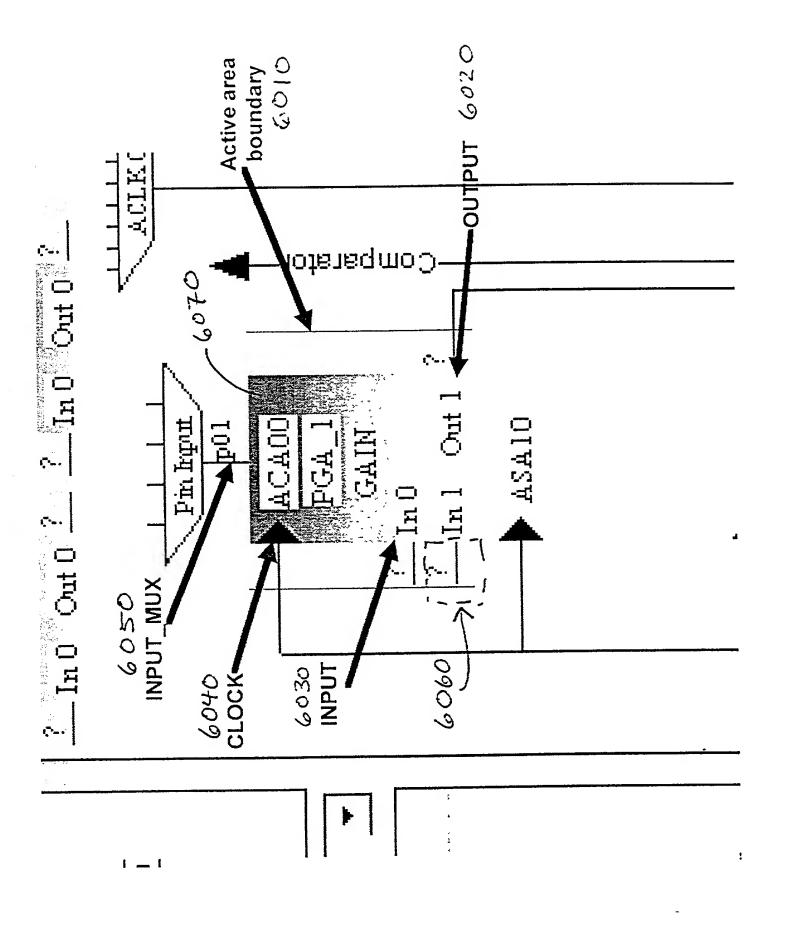


FIGURE 6

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766 - <USER_MODULE NAME="ADCEXP" TYPE="PSOC_ADC" HTML="ADCEXP.HTM" ICON="ADC.ico" METAFILE="ADCEXP.cmf"
                                                                                                                                                                                                                                                                                                          <BITFIELD NAME="CLOCK_PHASE" VALUE="PHASE_NORM"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <BITFIELD NAME="COMP_OUT" VALUE="ENABLED"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <BITFIELD NAME="AZ_PIĪASE" VALUE="AZ_PIII"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <BITFIELD_LIST> \
<BITFIELD NAME="A_OUT" VALUE="DISABLED"/>
                                                                                                                                                                                                                                                                                                                                                               <BITFIELD NAME="CAP_SIZE" VALUE="16"/>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <BITFIELD_LIST>
<BITFIELD NAME="CAP_SIZE" VALUE="0"/>
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                                                                                                                     API_PATH_TYPE="CUSTOM">
-4 O 7 - <SHAPE SHAPE_TYPE="BLOCKLIST">
7 & ~ <BLOCK_LIST>
7 | O ~ <BLOCK_NAME="ADC" TYPE="ANALOG_SC">
                                                                         <!--Variable Resolution Incremental ADC-->
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <REGISTER NAME="CR2">
                                                                                                                                                                                                                                                                                                                                                                                                                                            <REGISTER NAME="CR1">
                                                                                                                                                                                                                                         ナリ4 — <REGISTER NAME="CR0">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     </BITFIELD_LIST>
<!--Project DB Ver 0.03 08/10/00-->
                                                                                                                                                                                                                                                                                                                                                                                             </BITFIELD_LIST>
                                                                                                                                                                                                                                                                       -<BITFIELD_LIST>
                                                                                                                                                                                                                       712 —<REGISTER_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              </REGISTER>
                                                                                                                                                                                                                                                                                                                                                                                                                       </REGISTER>
                                                   MODULE_LIST>
                           702-<PSOC_DEVICE_DB>
                                                                                                                                                                                                                                                                         212
                                                      704 -<USER
```

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726 - <INPUT_LIST/>
</BLOCK>
</BLOCK_LIST>
<BLOCK_LIST>
<BLOCK_LIST>
<BLOCK_LIST>
<BLOCK_LIST>
<BLOCK_LIST>
<BLOCK_LIST>
<BLOCK_LIST>
                                                                       FIGURE 7B
                                                                                                                                                                                                                                                                                                                                                                                                                                                   <BITFIELD NAME="CompareType" VALUE="LTorEQ"/>
<BITFIELD NAME="InterruptType" VALUE="TerminalCount"/>
                                                                                                                                                                                                      <BITFIELD NAME="PWR_SELECT" VALUE="PWR_OFF"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <BITFIELD NAME="DataSelect" VALUE="High"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <BITFIELD NAME="Function" VALUE="Timer"/>
<BITFIELD NAME="CAP_SIZE" VALUE="0"/>
                                                                                                                                                                                                                                                                                                                                                                                                                  <BITFIELD_LIST>
<BITFIELD NAME="End" VALUE="IsEnd"/>
                                                                                                                                                                                                                                                                                                                                                                                                 <REGISTER NAME="DIG BasicFunction">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <REGISTER NAME="DIG_Input">
                                                      <REGISTER NAME="CR3">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <BITFIELD_LIST>
                  </BITTIELD_LIST>
                                                                                                                                                                                                                           </BITFIELD_LIST>
                                                                                                                                                                                                                                                                </REGISTER_LIST>
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<BLOCK NAME="CNT_MSB" TYPE="DIGITAL" INTERRUPT_SOURCE="_CNT_INT" INTERRUPT_TYPE="JUMP">
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FIGURE 7
                       <BITFIELD_LIST>
<BITFIELD NAME="AUXOutputEnable" VALUE="DISABLE"/>
                                                                  <BITFIELD NAME="DigOutputEnable" VALUE="DISABLE"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <BITFIELD NAME="CompareType" VALUE="LTorEQ"/>
                                                                                                                                                                                                                                                                                                                                                                                          <BITFIELD NAME="CompareType" VALUE="LTorEQ"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <BITFIELD NAME="Function" VALUE="Counter"/>
                                                                                                                                                                                                                                                                                                                                              <BITFIELD_LIST>
<BITFIELD NAME="Function" VALUE="Counter"/>
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<BLOCK_LIST>
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                                                                                                                                                                                                                                                                                                                   <REGISTER NAME="DIG_BasicFunction">
<REGISTER NAME="DIG_Output">
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                                                                                                                                                                                                                                                                                                                                                                                                                      </BITFIELD_LIST>
                                                                                               </BITFIELD_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     </REGISTER_LIST>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <REGISTER LIST>
                                                                                                                                               </REGISTER_LIST>
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                                                                                                                       </REGISTER>
                                                                                                                                                                      <INPUT_LIST/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <INPUT_LIST>
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                                                                                                                                                                                                </BLOCK>
```

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<!NPUT SOURCE="CNT_LSB" TYPE="BLOCK" REGISTER_NAME="DIG_Input" BITFIELD="DataSelect"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <PARAMETER NAME="CTRCLKL" TYPE="CLOCK" SOURCE="CNT_LSB" REGISTER_NAME="DIG_Input"</p>
                                                                                                                                                                                                                                                                                                                              <PARAMETER NAME="ADCINPUT_SCB" TYPE="INPUT" SOURCE="ADC" REGISTER_NAME="CR1"</p>
                                                                                                                                                                                                                                                                                                                                                                          PARAMETER NAME="ADCINPUT_SCA" TYPE="INPUT" SOURCE="ADC" REGISTER_NAME="CRI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <PARAMETER NAME="TMRCLK" TYPE="CLOCK" SOURCE="TMR" REGISTER_NAME="DIG_Input"</p>
                                                                                                                                                                                                                                                                                                                                                                                                                 <PARAMETER NAME="ClockPhase" TYPE="BLOCK" SOURCE="ADC" REGISTER_NAME="CR0"
BITFIELD="CLOCK_PHASE"/>
                                                                                                                                                   <RESOURCE NAME="AnalogOut" TYPE="ANALOG_COMPARATOR_OUTPUT">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1100BE
                                                                                                                                                                                                <INPUT SOURCE="ADC" TYPE="BLOCK" />
                                                                                                                                                                                                                                                                                                                                                                              <PARAMETER NAME="ADCINP\
BITFIELD="SCA_INPUT_MUX_A_C"/>
                                                                                                                                                                                                                                                                                                                                                    BITFIELD="SCB_INPUT_MUX_A"/>
</REGISTER_LIST>
                                                                                                                                                                                                                                                                </RESOURCE_LIST>
</SHAPE>
- <PARAMETER_LIST>
                                                                                                        BITFIELD="ClockSelect"/>
                                                                                                                                                                                                                      </INPUT LIST>
                                                              </INPUT_LIST>
                    <INPUT_LIST>
                                                                                                                                                                       <INPUT_LIST>
                                                                                                                                                                                                                                           </RESOURCE>
                                                                                   </BLOCK>
                                                                                                                                                                              730
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REGISTER_NAME="AnalogComparatorControl"/>
                                                                                                   </API_REGISTER_ALIAS_LIST>
                                                                                                            <I.SI.1 :I.IST.5</pre>
                                                                                                       </USE: MODULE
                                                                                                            </USE:R
                                                                                                                </PSOC
```